

Material Safety Data Sheet

PI3K/Akt/mTOR Signaling Pathway Inhibitor Kit Catalog No. K1020

1. Identification of substance:

Manufacturer/Supplier: Selleck Chemicals
 2626 South Loop West, Suite 225, Houston, TX 77054 USA
 Toll Free: (877)796-6397 (US and Canada only)
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Product name: PI3K/Akt/mTOR Signaling Pathway Inhibitor Kit
Revision Date: Oct 1, 2012

2. Composition/data on components:

Trade name	Product Number	Chemical Name	Synonyms	Hazardous Ingredient	CAS Registry Number:	Molecular Weight	Molecular Formula
PKI-402	S2739	1-(4-(3-ethyl-7-morpholino-3H-[1,2,3]triazolo[4,5-d]pyrimidin-5-yl)phenyl)-3-(4-(1-methylpiperazine-4-carbonyl)phenyl)urea	N/A	PKI-402	1173204-81-3, 1173204-82-4 (XHCl)	570.65	C ₂₉ H ₃₄ N ₁₀ O ₃
Rapamycin (Sirolimus)	S1039	(3S,6R,7E,9R,10R,12R,14S,15E,17E,19E,21S,23S,26R,27R,34aS)-9,10,12,13,14,21,22,23,24,25,26,27,32,33,34,34a-Hexadecahydro-9,27-dihydroxy-3-[(1R)-2-[(1S,3R,4R)-4-hydroxy-3-methoxycyclohexyl]-1-methylethyl]-10,21-dimethoxy-6,8,12,14,20,26-hexamethyl-23,27-epoxy-3H-pyrido[2,1-c][1,4]oxaazacycloheptacine-1,5,11,28,29(4H,6H,31H)-pentone	N/A	Rapamycin (Sirolimus)	53123-88-9, 1179372-35-0, 1189166-54-8, 1233221-34-5, 1353039-01-6	914.18	C ₅₁ H ₇₉ NO ₁₃
BEZ235 (NVP-BEZ235)	S1009	2-methyl-2-(4-(3-methyl-2-oxo-8-(quinolin-3-yl)-2,3-dihydroimidazo[4,5-c]quinolin-1-yl)phenyl)propanenitrile	N/A	BEZ235 (NVP-BEZ235)	915019-65-7, 1028385-32-1 (4-methylbenzenesulfonate)	469.55	C ₃₀ H ₂₃ N ₅ O
MK-2206 dihydrochloride	S1078	8-(4-(1-aminocyclobutyl)phenyl)-9-phenyl-[1,2,4]triazolo[3,4-f][1,6]naphthyridin-3(2H)-one	N/A	MK-2206 dihydrochloride	1032350-13-2, 1032349-93-1 (free base), 1032349-77-1 (HCl)	480.39	C ₂₅ H ₂₁ N ₅ O ₂ HCl
CHIR-99021 (CT99021)	S1263	6-(2-(4-(2,4-dichlorophenyl)-5-(4-methyl-1H-imidazol-2-yl)pyrimidin-2-ylamino)ethylamino)nicotinonitrile	N/A	CHIR-99021 (CT99021)	252917-06-9	465.34	C ₂₂ H ₁₆ Cl ₂ N ₈
NU7441 (KU-57788)	S2638	4H-1-Benzopyran-4-one, 8-(4-dibenzothienyl)-2-(4-morpholinyl)-	N/A	NU7441 (KU-57788)	503468-95-9	413.49	C ₂₅ H ₁₉ NO ₃ S
KU-55933	S1092	2-morpholino-6-(thianthren-1-yl)-4H-pyran-4-one	N/A	KU-55933	587871-26-9	395.49	C ₂₁ H ₁₇ NO ₃ S ₂
BX-912	S1275	N-(3-(4-(2-(1H-imidazol-5-yl)ethylamino)-5-bromopyrimidin-2-ylamino)phenyl)pyrrolidine-1-carboxamide	N/A	BX-912	702674-56-4	471.35	C ₂₀ H ₂₃ BrN ₆ O
AT7867	S1558	4-(4-(1H-pyrazol-4-yl)phenyl)-4-(4-chlorophenyl)piperidine	N/A	AT7867	857531-00-1	337.85	C ₂₀ H ₂₀ ClN ₃

3. Hazards identification:

Hazard Description:
 Toxic. Contains a pharmaceutically active ingredient.
 Handling should only be performed by personnel trained and familiar

with handling of potent active pharmaceutical ingredients
Moderate to severe irritant to the skin and eyes

4. First aid measures:

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

5. Fire fighting measures:

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire hazard: emits toxic fumes such as carbon monoxide, etc.

6. Accidental release measures:

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

7. Handling and storage:

Information for safe handling: avoid inhalation and contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20°C

8. Exposure controls and personal protection:

Personal protective equipment as follows:

- **Breathing equipment:** NIOSH/MSHA-approved respirator
- **Protection of hands:** chemical-resistant rubber gloves
- **Eye protection:** chemical safety goggles

9. Physical and chemical properties:

Solubility in / Miscibility with water: <1

Solvent content: none

10. Stability and reactivity:

Stability: stable if stored as directed; avoid strong oxidizing agents

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides

11. Toxicological information:

RTECS#:

- **Acute toxicity:** none known
- **Primary irritant effect:** not known
- **On the skin:** none known
- **On the eye:** not known; may be an irritant

12. Ecological information:

General notes: no data available

13. Disposal consideration:

Dispose of in accordance with prevailing country, federal, state and local regulations

14. Transport information:

DOT:



- **Proper shipping name:** none
- **Non-Hazardous for transport:** this substance is considered to be non-hazardous for transport

IATA class:

- **Proper shipping name:** none
- **Non-Hazardous for transport:** this substance is considered to be non-hazardous for transport

15. Regulations:

Code letter and hazard designation of product: Hazard-determining components of labeling: EU Risk And Safety phrases:

- S24/25: Avoid contact with skin and eyes
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28: After contact with skin, wash immediately with plenty of water
- S36/37/39: Wear protective clothing, gloves and eye/face protection
- R28: Very toxic if swallowed
- R38: Irritating to skin
- R41: Risk of serious damages to eyes
- R48: Toxic; danger of serious damage to health by prolonged exposure
-  **R62: Possible risk of impaired fertility**
-  **R63: Possible risk of harm to unborn child**

16. Other information:

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user. SELLECK CHEMICALS disclaims all liability for any damage resulting from use of this material.