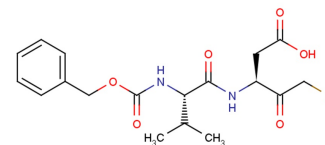


EP1013

## Chemical Properties

CAS No.:	223568-55-6
Formula:	C <sub>18</sub> H <sub>23</sub> FN <sub>2</sub> O <sub>6</sub>
Molecular Weight:	382.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	EP1013 is a broad-spectrum selective inhibitor of Caspase used in the study of type 1 diabetes.
Targets(IC <sub>50</sub> )	Caspase: None
In vivo	EP1013 therapy enhances functional syngeneic islet mass and promotes longevity of islet graft function. EP1013 (1, 3, 10 mg/kg) significantly improves marginal islet mass function. Two animals in the 10 mg/kg EP1013 treatment group exhibit primary islet graft nonfunction, but the diabetes reversal rate for this group is not significantly different from the 3 mg/kg EP1013, 1 mg/kg EP1013, or 10 mg/kg zVAD groups.

## Solubility Information

Solubility	DMSO: 60 mg/mL (156.91 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.615 mL	13.076 mL	26.152 mL
5 mM	0.523 mL	2.615 mL	5.23 mL
10 mM	0.262 mL	1.308 mL	2.615 mL
50 mM	0.052 mL	0.262 mL	0.523 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Emamaullee JA, et al. The caspase selective inhibitor EP1013 augments human islet graft function and longevity in marginal mass islet transplantation in mice. *Diabetes*. 2008 Jun;57(6):1556-66.

Inhibitors · Natural Compounds · Compound Libraries

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