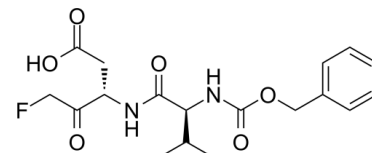


Data Sheet

Product Name:	EP1013
Cat. No.:	CS-7645
CAS No.:	223568-55-6
Molecular Formula:	C ₁₈ H ₂₃ FN ₂ O ₆
Molecular Weight:	382.38
Target:	Caspase
Pathway:	Apoptosis
Solubility:	DMSO : ≥ 60 mg/mL (156.91 mM)



BIOLOGICAL ACTIVITY:

EP1013 is a broad-spectrum **caspase** selective inhibitor, used in the research of type 1 diabetes. **In Vivo:** 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. EP1013 therapy enhances functional syngeneic islet mass and promotes longevity of islet graft function^[1].

References:

[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.

CAIndexNames:

Pentanoic acid, 5-fluoro-3-[[[(2S)-3-methyl-1-oxo-2-[(phenylmethoxy)carbonyl]amino]butyl]amino]-4-oxo-, (3S)-

SMILES:

O=C(O)C[C@H](NC([C@H](C(C)C)NC(OCC1=CC=CC=C1)=O)=O)C(CF)=O

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA