SK1-I

Sphingosine kinase 1 inhibitor exclusive to Enzo Life Sciences

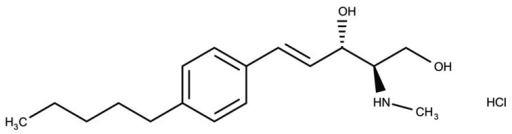
SK1-I is a sphingosine analog and a sphingosine competitive inhibitor specific for sphingosine kinase 1 (SK1), with k_i~10μM and excellent water solubility. It is not to be confused with SKI-I, 5-naphthalen-2-yl-2*H*-pyrazole-3-carboxylic acid (2-hydroxy-naphthalen-1-ylmethylene)-hydrazide, CAS 306301-68-8, a noncompetitive inhibitor of both SK1 and SK2 with poor water solubility (K.J. French, et al., 2006; N.J. Pyne and S. Pyne, 2010). SK1-I does not inhibit SK2, PKCα, PKCδ, PKA, AKT1, ERK1, EGFR, CDK2, IKKβ or CamK2β. Not only does it decrease sphingosine-1-phosphate levels, it also causes an accumulation of its proapoptotic precursor ceremide. Inhibits tumor cell growth *in vitro* and *in vivo.*

Citations: 14 View Online »

Ordering Information Order Online »

BML-EI411-0005	5mg
BML-EI411-0025	25mg

Manuals, SDS & CofA View Online »


OH
OH
HN
CH3
H3C
HCl

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored at -20°C.
Handling	Protect from light and air.
Long Term Storage	-20°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	(2R,3S,4E)-N-methyl-5-(4′-pentylphenyl)-2-aminopent-4-ene-1,3-diol . HCl
Appearance	White solid.
CAS	1072443-89-0
Couple Target	Sphingosine kinase
Couple Type	Inhibitor
Formula	$C_{17}H_{27}NO_2$. HCl
Identity	Determined by NMR.
MW	313.9
Purity	≥98% (HPLC)
Solubility	Soluble in water or DMSO (100 mM).

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