

## Product Information

### SphK inhibitor K145, Purity $\geq 98\%$

**Cat. No.:** X24-06-ZQ815

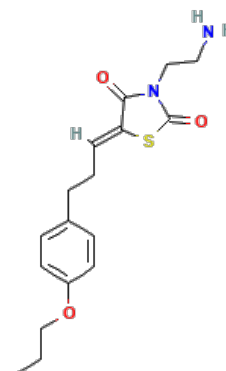
**Size:** 5 mg; 10 mg; 50 mg

**CAS Number:** 1309444-75-4

**Compound CID:** 71714682

**Synonym:** 1309444-75-4; SphK inhibitor; SphK2 inhibitor; K 145; K-145

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	K145 targets and inhibits the activity of sphingosine kinase enzymes, which play a crucial role in the sphingolipid metabolic pathway.
<b>Molecular Weight</b>	348.46
<b>Molecular Formula</b>	C <sub>18</sub> H <sub>24</sub> N <sub>2</sub> O <sub>3</sub> S
<b>IUPAC Name</b>	(5Z)-3-(2-aminoethyl)-5-[3-(4-butoxyphenyl)propylidene]-1,3-thiazolidine-2,4-dione
<b>InChI</b>	InChI=1S/C18H24N2O3S/c1-2-3-13-23-15-9-7-14(8-10-15)5-4-6-16-17(21)20(12-11-19)18(22)24-16/h6-10H,2-5,11-13,19H2,1H3/b16-6-
<b>InChI Key</b>	MPZXLTZVPUSTFY-SOFYXZRVSA-N
<b>Canonical SMILES</b>	CCCCOC1=CC=C(C=C1)CCC=C2C(=O)N(C(=O)S2)CCN
<b>Isomeric SMILES</b>	CCCCOC1=CC=C(C=C1)CC/C=C\2/C(=O)N(C(=O)S2)CCN
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Applications</b>	K145 serves as a potent inhibitor of SphK (sphingosine kinase), which is involved in sphingolipid signaling pathways crucial for cell growth and survival.
<b>Storage</b>	Store at -20°C, and keep desiccated.