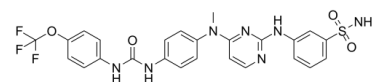


Data Sheet

Product Name:	GW806742X
Cat. No.:	CS-0044745
CAS No.:	579515-63-2
Molecular Formula:	C25H22F3N7O4S
Molecular Weight:	573.55
Target:	Mixed Lineage Kinase; VEGFR
Pathway:	MAPK/ERK Pathway; Protein Tyrosine Kinase/RTK
Solubility:	DMSO : ≥ 125 mg/mL



BIOLOGICAL ACTIVITY:

GW806742X is a **Mixed Lineage Kinase Domain-Like protein (MLKL)** inhibitor which binds the MLKL pseudokinase domain with a K_d value of $9.3 \mu\text{M}$ and has anti-necroptosis activity. GW806742X has activity against VEGFR2^{[1][2]}. IC_{50} & Target: K_d : $9.3 \mu\text{M}$ (MLKL)^[1] **In Vitro**: GW806742X (0.1 - 10000 nM) rescues 50% of wild-type mouse dermal fibroblasts (MDFs) from TSQ-induced necroptosis with an $\text{IC}_{50} < 50$ nM when 1 ng/mL TNF is used^[1]. GW806742X ($1 \mu\text{M}$) retards MLKL translocation to the membrane^[1].

References:

[1]. Hildebrand JM, et al. Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. Proc Natl Acad Sci U S A. 2014 Oct 21;111(42):15072-7.

[2]. Yan B, et al. Discovery of a new class of highly potent necroptosis inhibitors targeting the mixed lineage kinase domain-like protein. Chem Commun (Camb). 2017 Mar 28;53(26):3637-3640.

CAIndexNames:

Benzenesulfonamide, 3-[[[4-[methyl[4-[[[4-(trifluoromethoxy)phenyl]amino]carbonyl]amino]phenyl]amino]-2-pyrimidinyl]amino]-

SMILES:

O=S(C1=CC=CC(NC2=NC=CC(N(C)C3=CC=C(NC(NC4=CC=C(OC(F)(F)F)C=C4)=O)C=C3)=N2)=C1)(N)=O

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

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