



Product Information

Trk receptor inhibitor GNF 5837, Purity $\geq 98\%$

Cat. No.: X24-06-ZQ373

Size: 10 mg; 25 mg; 50 mg; 100 mg

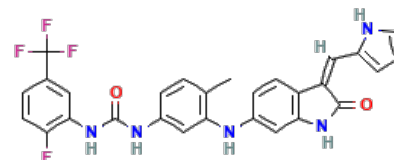
MDL: MFCD24386809

CAS Number: 1033769-28-6

Compound CID: 59397065

Synonym: 1033769-28-6; Trk receptor inhibitor; GNF-5837; GNF5837

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



Product Information

Description	GNF 5837, soluble in DMSO and warmed ethanol and insoluble in water, blocks the activity of tropomyosin receptor kinases, which are involved in the growth and survival of neurons. It targets TrkA, TrkB, Abl, ALK, CSF-1R, FGFR3, FGFR4, FLT3, IGF-1R, Insulin receptor, and JAK2.
Molecular Weight	535.49
Molecular Formula	C ₂₈ H ₂₁ F ₄ N ₅ O ₂
Targets	TrkA: 11 nM; TrkB: 9 nM; Abl: 8.2 nM; ALK: 3.4 nM; CSF-1R: 4 μ M; FGFR3: 9.3 μ M; FGFR4: 7 μ M; FLT3: 5.1 μ M; IGF-1R: 7.6 μ M; Insulin receptor: 8 μ M; JAK2: 2.9 μ M
IUPAC Name	1-[2-Fluoro-5-(trifluoromethyl)phenyl]-3-[4-methyl-3-[[[(3Z)-2-oxo-3-(1H-pyrrol-2-ylmethylidene)-1H-indol-6-yl]amino]phenyl]urea
InChI	InChI=1S/C28H21F4N5O2/c1-15-4-6-19(35-27(39)37-25-11-16(28(30,31)32)5-9-22(25)29)13-23(15)34-18-7-8-20-21(12-17-3-2-10-33-17)26(38)36-24(20)14-18/h2-14,33-34H,1H3,(H,36,38)(H2,35,37,39)/b21-12-
InChI Key	YYDUWLSETXNJJT-MTJSOVHGSA-N
Canonical SMILES	CC1=C(C=C(C=C1)NC(=O)NC2=C(C=CC(=C2)C(F)(F)F)NC3=CC4=C(C=C3)C(=CC5=CC=CN5)C(=O)N4
Isomeric SMILES	CC1=C(C=C(C=C1)NC(=O)NC2=C(C=CC(=C2)C(F)(F)F)NC3=CC4=C(C=C3)/C(=C/C5=CC=CN5)/C(=O)N4
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 92 mg/mL (171.8 mM); Water: Insoluble; Warmed ethanol: 8 mg/mL (14.93 mM)
Identity	Confirmed by NMR/HPLC/MS.



Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	GNF 5837 is examined for its role in inhibiting Trk kinases, relevant in researching treatments for cancers and neurological disorders.
Storage	Store at -20°C, and keep desiccated.
