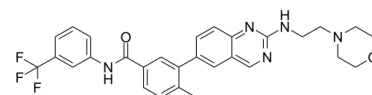


Data Sheet

Product Name:	AMG-47a
Cat. No.:	CS-4439
CAS No.:	882663-88-9
Molecular Formula:	C ₂₉ H ₂₈ F ₃ N ₅ O ₂
Molecular Weight:	535.56
Target:	JAK; p38 MAPK; Src; VEGFR
Pathway:	Epigenetics; JAK/STAT Signaling; MAPK/ERK Pathway; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
Solubility:	DMSO : ≥ 34 mg/mL (63.48 mM)



BIOLOGICAL ACTIVITY:

AMG-47a is a potent and orally active **lymphocyte-specific protein tyrosine kinase (Lck)** inhibitor, with an **IC₅₀** of 0.2 nM. AMG-47a also inhibits **VEGF2**, **p38α**, **Jak3** and **MLR** and **IL-2** with **IC₅₀s** of 1 nM, 3 nM, 72 nM, 30 nM and 21 nM, respectively. AMG-47a has anti-inflammatory activity^[1]. IC₅₀ & Target: IC₅₀: 0.2 nM (Lck), 1 nM (VEGF2), 3 nM (p38α), 72 nM (Jak3), 30 nM (MLR), 21 nM (IL-2)^[1]

References:

- [1]. Carver J, et al. A high-throughput assay for small molecule destabilizers of the KRAS oncoprotein. PLoS One. 2014 Aug 5;9(8):e103836.
- [2]. Discovery of aminoquinazolines as potent, orally bioavailable inhibitors of Lck: synthesis, SAR, and in vivo anti-inflammatory activity. J Med Chem. 2006 Sep 21;49(19):5671-86.

CAIndexNames:

Benzamide, 4-methyl-3-[2-[[2-(4-morpholinyl)ethyl]amino]-6-quinazoliny]-N-[3-(trifluoromethyl)phenyl]-

SMILES:

O=C(NC1=CC=CC(C(F)(F)F)=C1)C2=CC=C(C)C(C3=CC4=CN=C(NCCN5CCOCC5)N=C4C=C3)=C2

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

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