

Product Name	: I-OMe-Tyrphostin AG 538
Synonyms	: —
Cat No.	: M32963
CAS Number	: 1094048-77-7
Molecular Formula	: C ₁₇ H ₁₂ INO ₅
Formula Weight	: 437.19
Chemical Name	: —
Description	I-OMe-Tyrphostin AG 538 (I-OMe-AG 538) is a specific inhibitor of IGF-1R (insulin-like growth factor-1 receptor tyrosine kinase). I-OMe-Tyrphostin AG 538 inhibits IGF-1R-mediated signaling and is preferentially cytotoxic to nutrient-deprived PANC1 cells. I-OMe-Tyrphostin AG 538 is an ATP-competitive inhibitor of phosphatidylinositol-5-phosphate 4-kinase α (PI5P4Kα), with an IC ₅₀ of 1 μM.
Pathway	: PI3K/Akt/mTOR signaling
Target	: PI3K
Receptor	: PI3K IGF-1R
Solubility	: In Vitro: DMSO : 50 mg/mL (114.37 mM; Ultrasonic)
SMILES	: <chem>COc1cc(\C=C/C#N)C(=O)c2ccc(O)c(O)c2)cc(I)c1O</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Davis MI, et al. A homogeneous, high-throughput assay for phosphatidylinositol 5-phosphate 4-kinase with a novel, rapid substrate preparation. PLoS One. 2013;8(1):e54127.