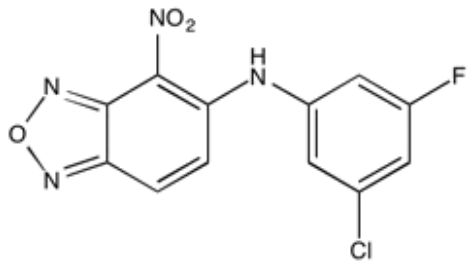
Catalog # 10-1508
HIF-2α-I2
CAS# 1422955-31-4
N-(3-chloro-5-fluorophenyl)-4-nitro-2,1,3-benzoxadiazol-5-amine
TC-S 7009
Lot # S102007



Potent and selective HIF-2α inhibitor, K_d=81 nM.[1] Binds to the HIF-2α PAS-B domain[2] and interferes with Hif-2α / ARNT heterodimerization reducing target gene expression in a cellular model[1]. Highly selective for HIF-2α displaying a >60-fold selectivity over HIF-1α.[1,2]

1) Scheuermann et al. (2013), *Allosteric inhibition of hypoxia inducible factor-2 with small molecules*; Nat. Chem. Biol., **9** 271
2) Masetti *et al*. (2014), *Protein dynamics of the HIF-2α PAS-B domain upon heterodimerization and ligand binding*; PLoS One, **9(4)** e94986
3) Rodgers *et al*. (2013), *Development of inhibitors of the PAS-B domain of the HIF-2α transcription factor*; J. Med. Chem., **56** 1739

PHYSICAL DATA

Molecular Weight:	308.65
Molecular Formula:	$C_{12}H_6ClFN_4O_3$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 30 mg/ml) or in DMF (up to 35 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase.
	Solutions in DMSO or DMF may be stored at -20°C for up to 1 month.

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