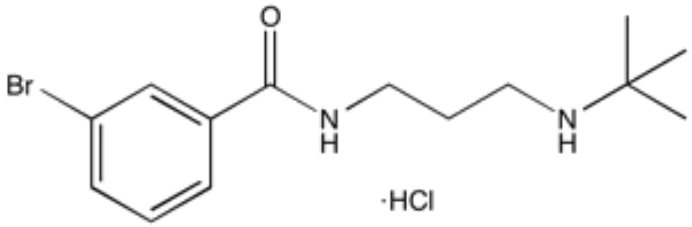
Catalog # 10-1558
UNC-2170
CAS# 1648707-58-7
3-Bromo-N-(3-(tert-butylamino)propyl)benzamide, hydrochloride
Lot # S102103



The DNA damage response protein 53BP1 utilizes its tandem tudor domain to recognize dimethylated lysine 20 on histone (H4K20me2), a modification associated with double-strand DNA breaks. UNC-2170, identified by screening, was found to be a μM ligand for 53BP1 which also demonstrated at least 17-fold selectivity for 53BP1 over other methyl-lysine binding proteins. The compound functions as a 53BP1 antagonist in cell lysates and suppresses class switch recombination in whole cells, a process requiring a functioning 53BP1 tudor domain.[1]

1) Perfetti *et al*. (2015), *Identification of a fragment-like small molecule ligand for the methyl-lysine binding protein 53BP1*; ACS Chem. Biol., **10** 1072

PHYSICAL DATA

Molecular Weight:	349.69
Molecular Formula:	$C_{14}H_{21}BrN_2O \bullet HCl$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml), or Water (up to 50 mg/ml)
Physical Description:	White 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 distilled water may be stored at -20°C for up to 3 months.

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