

**Product Name** : STAT3 inhibitor C188

**Synonyms** : C188; C-188; C 188; STAT3-IN-C188; Cpd188; Cpd-188

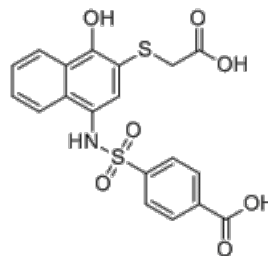
**Cat No.** : M16058

**CAS Number** : 823828-18-8

**Molecular Formula** : C<sub>19</sub>H<sub>15</sub>NO<sub>7</sub>S<sub>2</sub>

**Formula Weight** : 433.45

**Chemical Name** : 4-(N-(3-((carboxymethyl)thio)-4-hydroxynaphthalen-1-yl)sulfamoyl)benzoic acid



**Description** : A potent, selective STAT3 inhibitor that blocks STAT3 binding to its phosphopeptide ligand (IC<sub>50</sub>=20 μM) and inhibits IL-6-mediated phosphorylation of STAT3; inhibits nuclear translocation of phosphorylated Stat3 with IC<sub>50</sub> of 39 μM, induces apoptosis preferentially of breast cancer cell lines with constitutive Stat3 activation.

**Pathway** : JAK/STAT Signaling

**Target** : STAT

**Receptor** : STAT

**Solubility** : —

**SMILES** : O=C(O)C1=CC=C(S(=O)(NC2=C3C=CC(=C2)C(O)C(SCC(=O)O)=O)=O)C=C1

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Xu X, et al. PLoS One. 2009;4(3):e4783.