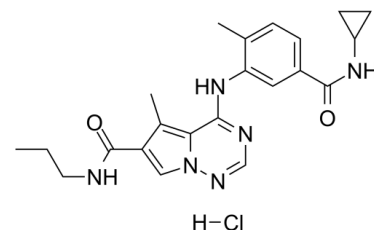


## Data Sheet

<b>Product Name:</b>	BMS-582949 (hydrochloride)
<b>Cat. No.:</b>	CS-5621
<b>CAS No.:</b>	912806-16-7
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>27</sub> ClN <sub>6</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	442.94
<b>Target:</b>	Autophagy; p38 MAPK
<b>Pathway:</b>	Autophagy; MAPK/ERK Pathway
<b>Solubility:</b>	DMSO : 25 mg/mL (56.44 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

BMS-582949 hydrochloride is an orally active and highly selective **p38α MAPK** inhibitor, with an **IC<sub>50</sub>** of 13 nM. BMS-582949 hydrochloride displays a significantly improved pharmacokinetic profile and is effective in inflammatory disease<sup>[1]</sup>. **In Vitro:** BMS-582949 displays a p38α **IC<sub>50</sub>** of 13 nM and a cellular TNFα **IC<sub>50</sub>** of 50 nM<sup>[1]</sup>.

BMS-582949 is a weak inhibitor of CYP3A4. BMS-582949 displays >2000-fold selectivity for p38α over a diverse panel of 57 kinases that include serine kinases, nonreceptor tyrosine kinases, receptor tyrosine kinases, and the p38γ and δ isoforms<sup>[1]</sup>. **In Vivo:** BMS-582949 (5-100 mg/kg, orally) is effective in both the acute murine model of inflammation and rat adjuvant arthritis model despite its slightly reduced potency<sup>[1]</sup>.

### References:

[1]. Liu C, et al. Discovery of 4-(5-(cyclopropylcarbamoyl)-2-methylphenylamino)-5-methyl-N-propylpyrrolo[2,1-f][1,2,4]triazine-6-carboxamide (BMS-582949), a clinical p38α MAP kinase inhibitor for the treatment of inflammatory diseases. J Med Chem. 2010 Sep 23;53(18):6629-39.

### CAIndexNames:

Pyrrolo[2,1-f][1,2,4]triazine-6-carboxamide, 4-[[5-[(cyclopropylamino)carbonyl]-2-methylphenyl]amino]-5-methyl-N-propyl-, hydrochloride (1:1)

### SMILES:

O=C(NCCC)C1=CN(N=CN=C2NC3=CC(C(NC4CC4)=O)=CC=C3C)C2=C1C.[H]Cl

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

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