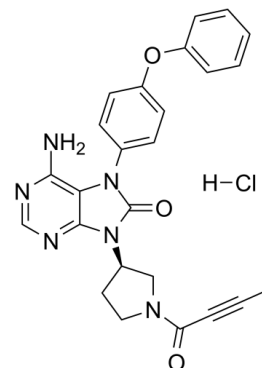


Data Sheet

Product Name:	Tirabrutinib (hydrochloride)
Cat. No.:	CS-5637
CAS No.:	1439901-97-9
Molecular Formula:	C ₂₅ H ₂₃ ClN ₆ O ₃
Molecular Weight:	490.94
Target:	Btk
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Tirabrutinib (ONO-4059) hydrochloride is a selective and novel inhibitor of BTK with IC₅₀ 2.2 nM, Tirabrutinib binds to BTK within B cells, thereby preventing B-cell receptor signaling and impeding B-cell development. IC₅₀ & Target: IC₅₀: 2.2 nM (BTK)^[1].

References:

- [1]. Akintunde Akinleye et al. Ibrutinib and novel BTK inhibitors in clinical development. J Hematol Oncol, 2013, 6: 59.
- [2]. Harriet S et al. A phase 1 clinical trial of the selective BTK inhibitor ONO/GS-4059 in relapsed and refractory mature B-cell malignancies. Blood 2016, 127:411-419.

CAIndexNames:

8H-Purin-8-one, 6-amino-7,9-dihydro-9-[(3R)-1-(1-oxo-2-butyn-1-yl)-3-pyrrolidinyl]-7-(4-phenoxyphenyl)-, hydrochloride (1:1)

SMILES:

O=C1N(C2=CC=C(OC3=CC=CC=C3)C=C2)C4=C(N)N=CN=C4N1[C@H]5CN(C(C#CC)=O)CC5.[H]Cl

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

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