

Catalog	Unit
TBI4806-5MG	5 mg
TBI4806-25MG	25 mg

### Product Details

**Formal Name:** 4-[8-Amino-3-[(2S)-1-but-2-ynoyl]pyrrolidin-2-yl]imidazo[1,5-a]pyrazin-1-yl]-N-pyridin-2-ylbenzamide

**Alternate Names:** ACP-196

**Molecular Formula:** C<sub>26</sub>H<sub>23</sub>N<sub>7</sub>O<sub>2</sub>

**Formula Weight:** 465.52

**CAS Number:** 1420477-60-6

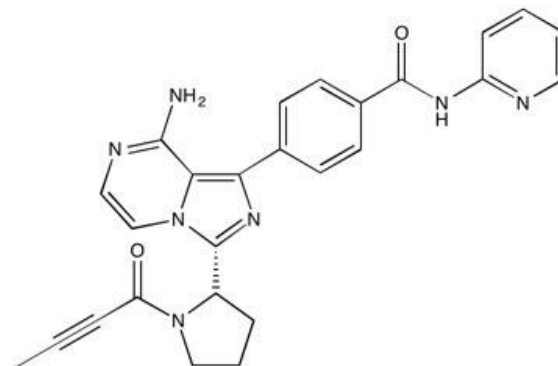
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to at least 25 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Highly selective BTK inhibitor

### Functions

Acalabrutinib (1420477-60-6) is a highly selective, potent (IC<sub>50</sub> = 3nM), and irreversible inhibitor of Bruton's tyrosine kinase (BTK). Improved target selectivity (especially against TEC family kinases and EGFR) decreased the number of serious side effects observed with Ibrutinib. Acalabrutinib significantly inhibits BCR signaling, inhibits tumor proliferation, and reduces tumor burden. Clinically useful agent for treating B-cell cancers. BTK has also been shown to have a role in modulating the innate immune system, especially in dendritic cells and macrophages, suggesting a possible role in immunotherapy.

### Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

**For research use only.**