

Catalog	Unit
TBI5400- 1MG	1 mg
TBI5400- 5MG	5 mg

### Product Details

**Formal Name:** 6-(5-(Thiophen-2-yl)isoxazole-3-carboxamido)hexyl 5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanoate

**Molecular Formula:** C<sub>24</sub>H<sub>32</sub>N<sub>4</sub>O<sub>5</sub>S<sub>2</sub>

**Formula Weight:** 520.66

**CAS Number:** 1377605-22-5

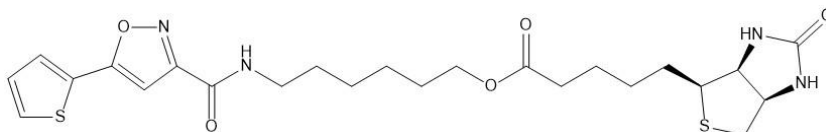
**Purity:** 98%

**Formulation:** Powder

**Solubility:** Soluble in DMSO (30 mg/ml with warming)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Precipitates RNA-binding proteins

### Functions

Biotin-isoxazole (1377605-22-5) precipitates hundreds of RNA-binding proteins with significant overlap to the constituents of RNA granules. In one study roughly 580 nuclear proteins were identified as being precipitated by B-Isox including TAF15, RNA polymerase II (largest subunit), numerous subunits of the mediator complex as well as a variety of enzymes involved in epigenetic modification of histones. SR domains were found to be the determinant that facilitates B-Isox precipitation. Also allows for the fractionation / isolation of SG-associated proteins and RNA precipitates.

### Application Procedures

First dissolved in DMSO (30 mg/ml with warming), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

### Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine

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