

## HTS01037, FABP inhibitor

Catalog	Unit
TBI1453-5MG	5 mg
TBI1453-25MG	25 mg

## **Product Details**

Formal Name: 4-[(3-Carboxy-1-oxo-2-propen-1-yl)amino]-[2,2'-bithiophene]-5-carboxylic acid, 5-methyl ester

Molecular Formula: C<sub>14</sub>H<sub>11</sub>NO<sub>5</sub>S<sub>2</sub>

**Formula Weight:** 337.37 **CAS Number:** 682741-29-3

Purity: >98%

Formulation: powder

**Solubility:** Soluble in DMSO (up to 50 mg/ml)

**Storage:** RT **Stability:**  $\geq 1$  year.

# **Applications**

FABP inhibitor

# S S O CO<sub>2</sub>H

## **Functions**

Inhibits fatty acid binding proteins. Inhibits lipolysis in 3T3-L1 adipocytes and reduces LPS-stimulated inflammation in cultured macrophages. Acts as an antagonist of the protein-protein interaction between AFABP/aP2 and hormone sensitive lipase but does not activate PPAR $\gamma$  in macrophages. Inhibits FABP-dependent and fatty acid-stimulated leukotriene C4 biosynthesis. Reduces intracellular free fatty acid levels, lowering macrophage inflammation and ER stress3. Reduces LPS-stimulated IL-1 $\beta$  secretion in a mouse model. Inhibits VLDL-induced foam cell formation.

### **Application Procedures**

First dissolved in DMSO (up to 50 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.