

## KNK437, HSP70 inhibitor

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Catalog	Unit
TBI5561-5MG	5 mg
TBI5561-25MG	25 mg

### Product Details

**Formal Name:** 3-(1,3-Benzodioxol-5-ylmethylene)-2-oxo-1-pyrrolidinecarboxaldehyde

**Molecular Formula:** C<sub>13</sub>H<sub>11</sub>NO<sub>4</sub>

**Formula Weight:** 245.20

**CAS Number:** 218924-25-5

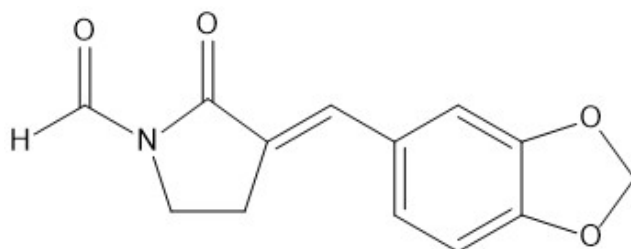
**Purity:** >98%

**Formulation:** powder

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

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

HSP70 inhibitor

### Functions

Inhibits constitutive and inducible HSP70 expression in non-stressed and heat-stressed cancer cells. Blocks geldanamycin-induced induction of HSP70 and inhibition of TGFβ signaling. Inhibits leukocyte integrin α4β7-mediated adhesion of T cells to mucosal addressin cell adhesion molecule 1 (MAdCAM-1), suggesting that HSP70 is essential for β7 integrin signalling. Suppresses morphine analgesic tolerance in a rodent model (100 mg/Kg).

### Application Procedures

First dissolved in DMSO (30 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.**