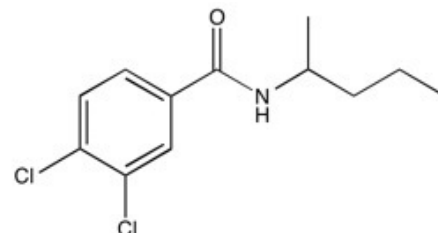


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Catalog	Unit
TBI1462-5MG	5 mg
TBI1462-25MG	25 mg

### Product Details

**Formal Name:** 3,4-Dichloro-N-(1-methylbutyl)benzamide  
**Molecular Formula:** C<sub>12</sub>H<sub>15</sub>NCl<sub>2</sub>O  
**Formula Weight:** 260.15  
**CAS Number:** 7497-07-6  
**Purity:** >98%  
**Formulation:** powder  
**Solubility:** Soluble in DMSO (up to 25 mg/ml) or in Ethanol (up to 25 mg/ml).  
**Storage:** RT  
**Stability:** ≥ 2 years.



### Applications

MT1-MMP inhibitor

### Functions

Membrane type-1 matrix metalloproteinase (MMP14 or MT1-MMP) inhibitor that prevents homodimerization and inhibits MMP14's protumorigenic activity in vivo. (IC<sub>50</sub> > 100 μM). Inhibition is via interaction with the hemopexin domain (PEX) of MMP14. NSC-405020 does not interfere with the catalytic activity of MT1-MMP or MMP-2. Suppresses bone erosion in a c-Fos-deficient mouse model. Decreases arsenic-mediated invasion of human squamous cell carcinoma HSC5 cells.

### Application Procedures

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

**For research use only.**