

## Product Datasheet

### HALOFUGINONE LACTATE (orb1219325)

<b>Catalog Number</b>	orb1219325
<b>Category</b>	Small Molecules
<b>Description</b>	<p>HALOFUGINONE LACTATE is a halogenated derivative of febrifugine, a natural quinazolinone-containing compound found in the Chinese herb D. febrifuga. Halofuginone inhibits prolyl-tRNA synthetase in an ATP-dependent manner with a <math>K_i</math> of 18.3 nM. Halofuginone is a specific inhibitor of type-I collagen synthesis and attenuates osteoarthritis (OA) by inhibition of TGF-<math>\beta</math> activity. Halofuginone (HF), a widely studied derivative of febrifugine, inhibits the development of T(H)17-driven autoimmunity in a mouse model of multiple sclerosis by activating the amino acid response (AAR) pathway. HF binds glutamyl-prolyl-tRNA synthetase (EPRS), inhibiting prolyl-tRNA synthetase activity; this inhibition is reversed by the addition of exogenous proline or EPRS.</p>
<b>Target</b>	prolyl-tRNA synthetase TGF- $\beta$
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	504.8
<b>CAS Number</b>	82186-71-8
<b>Formula</b>	$C_{19}H_{23}BrClN_3O_6$
<b>Storage</b>	Storage temperature: -20°C. Stability: $\geq$ 2 years
<b>Note</b>	For research use only

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