

## Certificate of Analysis

**Product** Resorufin, sodium salt

Cat No PKI-001-01

Lot No KD-011208

**Description** Resorufin is a cell-permeable and highly selective ATP/GTP competitive inhibitor for protein kinase CK2 (formerly called casein kinase-2). The IC<sub>50</sub> values determined for the CK2 holoenzymes were 1.5 µmol/l and for the free catalytic subunits 4 µmol/l. Endogenous protein kinase CK2 in various cell lines was inhibited by resorufin at 40 µmol/l between 40-80% (1). The selectivity of resorufin towards CK2 has been demonstrated using a panel of 52 kinases.

**Synonym:** 7-Hydroxy-3H-phenoxazin-3-one, sodium salt

**M.W.:** 235.17 g/mol

**Chemical formula:** C<sub>12</sub>H<sub>6</sub>NNaO<sub>3</sub>

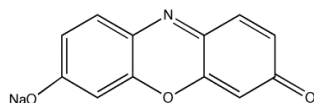
**CAS Number:** 34994-50-8

**Solubility:** soluble in water (1mg/ml), alternatively in DMSO

**Quality** Purity > 98%

**Form** dark red crystalline solid

### Chemical Structure



**Package size** 500 mg

**Storage condition** -20 °C, keep protected from light

**Experimental handling** It is recommended to prepare small aliquots for one time use. Avoid freezing and thawing of resorufin either in aqueous solutions or DMSO

**Shipment conditions** room temperature

**Literature** <sup>1</sup>Skjøth Sandholt et al. (2009) *Anti-Cancer Drugs*, **20**, 238-248