

## Product Datasheet

### R112 (orb1304448)

<b>Catalog Number</b>	orb1304448
<b>Category</b>	Small Molecules
<b>Description</b>	R112 is a potent and selective ATP-competitive inhibitor of spleen tyrosine kinase (Syk), exhibiting a $K_i$ of 6 nM and an $IC_{50}$ of 226 nM. This small molecule is a valuable research tool for studying Syk-dependent signaling pathways in immunology and oncology, applicable in both in vitro biochemical assays and cellular research models.
<b>Target</b>	Syk
<b>Purity</b>	99.06% (May vary between batches)
<b>MW</b>	312.3
<b>Target Areas</b>	Syk
<b>Solubility (25°C)</b>	DMSO:55 mg/mL (176.11 mM);10% DMSO+40% PEG300+5% Tween 80+45% Saline:2 mg/mL (6.4 mM)
<b>CAS Number</b>	575474-82-7
<b>Formula</b>	$C_{16}H_{13}FN_4O_2$
<b>SMILES</b>	<chem>Oc1cccc(Nc2ncc(F)c(Nc3cccc(O)c3)n2)c1</chem>
<b>Storage</b>	-20°C
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558