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**MATERIAL DATA SHEET**

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**NEDD8 Rhodamine, *human recombinant*****Cat. # UL-835**

NEDD8 modified with rhodamine red via primary amine coupling resulting in modification of lysine residues as well as the N-terminus. Although having a fully functional C-terminus, lysine modification may limit the ability of this reagent to propagate poly-NEDD8 chains. This labeled NEDD8 allows for direct detection spectrophotometrically with higher efficiency and sensitivity than with antibodies.

**Product Information**

<b>Quantity:</b>	50 µg
<b>Stock:</b>	X mg/ml (XµM) in 50mM Hepes pH 7.5, 100mM NaCl. Actual concentration varies with lot number.
<b>MW:</b>	12.1 kDa
<b>Purity:</b>	> 95% by PAGE

**Use & Storage**

<b>Use:</b>	Rhodamine NEDD8 gives a strong signal in the range of 0.1-1 µM, depending on exact experimental conditions. Optimal fluorescence at pH 8.0 is monitored using Ex <sub>570</sub> nm and Em <sub>590</sub> nm wavelengths respectively.
<b>Storage:</b>	Store at -80°C. Avoid multiple freeze/ thaw cycles.

**Literature**

<b>References:</b>	Gong L. <i>et al.</i> (1999) <u>J.Biol.Chem.</u> <b>274</b> : 12036-12042 Hori T., <i>et al.</i> (1999) <u>Oncogene.</u> <b>18</b> :6829-6834 Kamura T., <i>et al.</i> (1999) <u>Genes.Dev.</u> <b>13</b> :2928-2933 Kumar S., <i>et al.</i> (1993) <u>Biophys.Bioch.Res.Comm.</u> <b>195</b> :393-399 Morimoto M., <i>et al.</i> (2003) <u>Biophys.Bioch.Res.Comm.</u> <b>301</b> :392-398 Wada H., <i>et al.</i> (1999) <u>Biophys.Bioch. Res.Comm.</u> <b>275</b> :100-105 Whitby F.G., <i>et al.</i> (1998) <u>J.Biol.Chem.</u> <b>273</b> : 34983-34991
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