
MATERIAL DATA SHEET

Recombinant Human RNF114

Cat. # E3-304

RING finger protein 114 (RNF114) is an E3 Ubiquitin Ligase containing both RING and C2HC type zinc finger domains. RNF114 activates cell cycle progression and suppresses cellular senescence by ubiquitinating and destabilizing p21^{WAF1}, p27^{KIP1} and p57^{KIP2}, three members of cyclin-dependent kinase inhibitors. RNF114 expression is elevated at the late G1 phase and is crucial for the G1-to-S phase transition. Nimbolide, a terpenoid small molecule derived from Neem trees, interferes with RNF114-dependent ubiquitination of p21, resulting in its rapid stabilization. Nimbolide has been shown to impair proliferation of breast cancer cells and is being used as a basis for development of targeted protein degradation. This recombinant protein is untagged.

Product Information

Quantity:	25 µg
MW:	26 kDa
Source:	<i>E. coli</i> -derived human RNF114 protein Accession # Q9Y508
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 150 mM NaCl, 1 mM DTT
Purity:	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 48 months from date of receipt, -70 °C as supplied.• 3 months, -70 °C under sterile conditions after opening.
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Literature

References:

1. Bodduluru L.N. et al. (2014) Tox. In Vitro **5**: 1026
2. Han J. et al. (2013) Cell Death & Diff. **20**: 1055
3. Spradlin J.N. et al. (2019) Nat. Chem. Biol. **15**: 747

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