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Report

LS Which inhibitors interact with EGFR in DGIdb?

L get\_drug\_interactions\_for\_gene\_list

Based on DGIdb data, here are the **FDA-approved inhibitors that interact with EGFR**, ranked by interaction score:

Drug	Approval	Interaction Type	Interaction Score
Afatinib	✓ Approved	Inhibitor (inhibitory)	1.22
Mobocertinib	✓ Approved	Inhibitor (inhibitory)	1.09
Necitumumab	✓ Approved	Inhibitor/Antibody (inhibitory)	0.68
Cetuximab	✓ Approved	Antibody/Inhibitor (inhibitory)	0.62
Dacomitinib	✓ Approved	Inhibitor (inhibitory)	0.59
Erlotinib	✓ Approved	Inhibitor (inhibitory)	0.57
Neratinib	✓ Approved	Inhibitor (inhibitory)	0.36
Lapatinib	✓ Approved	Inhibitor (inhibitory)	0.27
Amivantamab	✓ Approved	Inhibitor (inhibitory)	0.27
Osimertinib mesylate	✓ Approved	Inhibitor (inhibitory)	0.27
Mobocertinib succinate	✓ Approved	Inhibitor (inhibitory)	0.27
Olmutinib	✓ Approved	Inhibitor (inhibitory)	0.27
Neratinib maleate	✓ Approved	Inhibitor (inhibitory)	0.18
Erlotinib hydrochloride	✓ Approved	Inhibitor (inhibitory)	0.18
Panitumumab	✓ Approved	Antibody/Inhibitor (inhibitory)	0.18

These interactions are supported by multiple sources including [CIViC](#), [OncoKB](#), [TTD](#), [ChEMBL](#), and the [FDA](#).

The small molecule tyrosine kinase inhibitors (afatinib, erlotinib, osimertinib, dacomitinib) and monoclonal antibodies (cetuximab, panitumumab, necitumumab,

lung cancer and colorectal cancer.

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