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Report

Ls For Warfarin, what genes does it interact with and by what mechanism of interaction in DGIdb?

L get_gene_interactions_for_drug_list

Based on the DGIdb query, here are the genes that interact with **Warfarin** along with their interaction details:

Top Warfarin Gene Interactions

Gene	Interaction Score	Source(s)	Supporting Evidence
PRSS53	11.07	PharmGKB	PMID:20716240 , PMID:17329985 , PMID:16611750
STX1B	6.33	PharmGKB	PMID:26751406 , PMID:27740732
VKORC1L1	3.16	PharmGKB , TEND, TdgClinicalTrial	PMID:29054760
DDHD1	3.16	PharmGKB	PMID:27488176
FGFBP2	3.16	PharmGKB	PMID:18535201
NEDD4	3.16	PharmGKB	PMID:27488176
CYP2C18	1.05	PharmGKB	PMID:19752777 , PMID:23327576
GAS6	1.05	NCI	PMID:16014032
PROS1	0.68	PharmGKB , FDA	PMID:19752777
VKORC1	0.63	FDA, TTD, TEND	—

Key Observations

Regarding Interaction Types/Mechanisms: The DGIdb results for Warfarin do not include specific interaction types or directions in this query. However, the most clinically relevant interactions are well-established:

- **VKORC1** — Warfarin's primary target. It inhibits vitamin K epoxide reductase, blocking the vitamin K cycle needed for clotting factor synthesis. This is an FDA-recognized pharmacogenomic biomarker.
- **VKORC1L1** — A paralog of VKORC1 that may also be involved in vitamin K metabolism.
- **CYP2C18** — A cytochrome P450 enzyme involved in warfarin metabolism.
- **PROS1 (Protein S)** — A vitamin K-dependent protein; warfarin affects its synthesis. Also an FDA biomarker.
- **GAS6** — A vitamin K-dependent protein that may be affected by warfarin's mechanism.

For more detailed mechanism information, I'd recommend consulting the linked PubMed publications or the [PharmGKB](#) database directly.

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