

Ivosidenib + CYP3A4-inductoren

M 8489

| Onderbouwend | Stof | Effect | Code |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Prakash C. Cancer Chemother Pharmacol 2020;86:619-632. doi: 10.1007/s00280-020-04148-3. Epub 2020 Sep 25 | ivosidenib + rifampicine, evavirenz | uitkomsten voorspeld op basis van PBPK-model; ↓ AUC en Cmax ivosidenib door: - rifampicine: ↓AUC met 65% en Cmax met 9% (ivosidenib eenmalig); ↓AUC met 33% en Cmax met 19% (ivosidenib 30 dagen) - evavirenz: ↓AUC met 50% en Cmax met 6% (ivosidenib eenmalig); ↓AUC met 11% en Cmax met 7% (ivosidenib 30 dagen) Auteurs: a greater DDI effect on the kinetics of a single dose than that of multiple-dose ivosidenib was predicted. This result is plausible as the CYP3A4 activity has been induced to a significant extent as a result of multiple-dose administration of ivosidenib (which also induces CYP3A4); thus, the inducible effect as a result of rifampin appears to be diminished as the magnitude of enzyme induction is inversely related to the baseline levels of enzyme. | 1A |

| Overig | Stof | Effect |
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| SPC + EPAR Tibsovo | ivosidenib + CYP3A4-inductoren | geen klinische onderzoeken uitgevoerd naar de farmacokinetiek van ivosidenib door een CYP3A4-inductor. Combinatie met sterke CYP3A4-inductoren zal naar verwachting de plasmaconcentraties van ivosidenib verlagen en is gecontra-indiceerd. Prediction accuracy of PBPK modelling with respect to the induction of CYP3A4-mediated DDIs was assessed considering twenty clinical studies. In these studies, the inducers of CYP3A4 were rifampicin, carbamazepine, phenobarbital, efavirenz and rifabutin. In 100% and 75% of the cases, the predicted mean AUC and Cmax ratios were within the criteria described. This result suggests that the PBPK platform is unable to accurately address Cmax ratios in 25% of the cases of the DDI mediated by CYP3A4 induction. |
| EPAR Tibsovo | ivosidenib | ivosidenib extensively becomes metabolised, mainly by oxidation by CYP3A4 (minor CYP2B6 and CYP2C8) and other CYP enzymes but also by N-dealkylation and conjugation with glutathione, cysteine or glucuronic acid. However, no circulation major metabolites were identified. In plasma the predominant compound is unchanged ivosidenib. Ivosidenib auto-induced its own metabolism at steady-state. For both indications no evidence of a clear relationship between a PK exposure parameter (presently AUC) and any of the investigated efficacy/safety endpoints was found. |

Opmerkingen

Werkgroep Interacties Oncologische middelen: actie Ja, ook al zijn er uitsluitend PBPK data; bij intermitterend gebruik (bij AML) ivosidenib geen andere actie, is speculatie van de auteurs (Prakash 2020) en 'tegen intuïtief'. Standaardlijst CYP3A4-inductoren koppelen, ivosidenib wordt voornamelijk gemetaboliseerd via CYP3A4.

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| Risicofactoren | |
| Mitigerende factoren | |

| | Interactie | Actie | Datum |
|-----------------------|------------|-------|----------------|
| Beslissing WG Onco IA | Ja | Ja | 2 oktober 2024 |

